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	Application No.	Applicant(s)
	09/964,039	HALASZ, DAVID E.
Notice of Allowability	Examiner	Art Unit
	Salman Ahmed	2666
The MAILING DATE of this communication appear All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this ap or other appropriate communication IGHTS. This application is subject to	oplication. If not included n will be mailed in due course. THIS
1. This communication is responsive to <u>11/2/2005</u> .		
2. The allowed claim(s) is/are 1.3-10.12-18(currently renumb	<u>ered 1-16)</u> .	
3. The drawings filed on 26 September 2001 are accepted by	y the Examiner.	
 4. Acknowledgment is made of a claim for foreign priority una) All b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority do International Bureau (PCT Rule 17.2(a)). * Certified copies not received: 	e been received. e been received in Application No	
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		complying with the requirements
5. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give		
6. CORRECTED DRAWINGS (as "replacement sheets") mus	st be submitted.	;
(a) ☐ including changes required by the Notice of Draftspers	son's Patent Drawing Review (PTO	-948) attached
1) 🗌 hereto or 2) 📗 to Paper No./Mail Date		
(b) including changes required by the attached Examiner Paper No./Mail Date	s Amendment / Comment or in the 0	Office action of
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in t		
7. DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT		
Attachment(s) 1. ☑ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)	 5. ☐ Notice of Informal F 6. ☐ Interview Summary 	Patent Application (PTO-152)
_	Paper No./Mail Da	ite ´
 Information Disclosure Statements (PTO-1449 or PTO/SB/C Paper No./Mail Date 	08), 7. 🛛 Examiner's Amend	ment/Comment
4. Examiner's Comment Regarding Requirement for Deposit		ent of Reasons for Allowance
of Biological Material	9. Other	

DETAILED ACTION

EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Mr. Larry Donovan on Nov 22nd 2005 around 10:50 a.m.

2. The application has been amended as follows:

Claims 2 and 11 have been cancelled.

Allowable Subject Matter

3. Claims 1, 3-10,12-18 are allowed.

Reason for Allowance

4. The following is an examiner's statement of reasons for allowance: The instant application claims a sampler and a processor applying a method of packet assembly in a wireless transmission system, comprising the steps of sampling at least first and second packets of a plurality of packets; calculating respective throughput times for each of first and second packets, and consolidating first and second packets into a third

Art Unit: 2666

packet if the sum of corresponding throughput times exceeds a predetermined limit.

Throughput time is defined to be:

Throughput time = Data Packet time + SIFS time + ACK time + DIFS time + Average Back-off time

The prior arts alone or in combination fail to jointly suggest or teach the claimed combination of features as taught by the instant application. The prior arts do not specifically teach the steps of sampling at least first and second packets of a plurality of packets; calculating respective throughput times for each of first and second packets, and consolidating first and second packets into a third packet if the sum of corresponding throughput times exceeds a predetermined limit. Therefore claims 1-18 are to be deemed allowable over prior art.

Citation of Relevant Prior Art

5. The prior arts made of record and not relied upon are considered pertinent to applicant's disclosure.

The prior art Rajan et al. (US PAT PUB 2002/0196787) teaches an apparatus employing a method for concatenating packets to be transmitted from a first node to a second node, the method comprising the steps of: receiving packets having at least one traffic characteristic from at least one input port; concatenating n received packets to form a concatenated packet; and transmitting the concatenated packet from the first

Art Unit: 2666

node to the second node, characterized in that the n received packets have a common traffic characteristic and n is determined based on the common traffic characteristic.

The prior art Barri (US PAT 5199027) teaches (column 1 lines 40-47) a processing means to re-calculate total bandwidth at least from individual bandwidth values contained in maintenance cells transmitted on virtual paths and adjust calculated total bandwidth in function of re-calculated total bandwidth.

The prior art Hiller et al. (US PAT 5327421) teaches a telecommunications switching system, apparatus employing a method for receiving synchronous pulse code modulated (PCM) signals, each signal carrying PCM channels. Each byte of PCM signals is stored in selectable memory locations in buffer memories. Hiller et al. teaches method of adding header data to outputs of buffer memories for forming composite packets, each composite packet comprising bytes from PCM channels of PCM signals. Hiller et al. further teaches method for transmitting periodically composite packets in output signals to a unit for switching packets where the selectable memory locations are selected to group each bytes of channels destined for a common switching system into one composite packet.

The prior art Garcia-Luna-Aceves et al. (US PAT PUB 2002/0154602) teaches (page 1 section 0013) two notable rate-control approaches, the Tri-S scheme and TCP Vegas. The Tri-S algorithm is a rate-based scheme that computes the achieved

Art Unit: 2666

throughput by measuring the RTT for a given window size (which represents the amount of outstanding data in the network). It compares the throughput for a given window and then for the same window increased by one segment. If the throughput is less than one-half that was achieved with the smaller window, they reduce the window by one segment. TCP Vegas tries to prevent congestion by estimating the expected throughput and then adjusting the transmission window to keep the actual observed throughput close the expected value.

IEEE publication "Scaling CSMA/CD to 1 Gb/s with frame bursting", Molle, M., Kalkunte, M., Kadambi, J. Local Computer Networks, 1997 teaches frame bursting method where (page 213) the sender can transmit several frames, separated by extended carrier, in a single burst. However, the maximum burst length is based on the maximum frame size instead of the slot time. The condition for including another frame into an ongoing burst is based on two tests. First, the starting time for the next frame must occur before the burst timer reaches a certain cutoff value. Second, the next frame must be available for transmission by the end of the interframe gap period. Initially, the burst limit was set at 12,000 bit times, which was deliberately chosen to be just below the maximum frame length to promote fairness.

Application/Control Number: 09/964,039 Page 6

Art Unit: 2666

Conclusion

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Salman Ahmed whose telephone number is (571)272-8307. The examiner can normally be reached on 8:30 am - 5:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Seema Rao can be reached on (571)272-3174. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Salman Ahmed Examiner Art Unit 2666

SA

SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2600